

**DOUBLE-SIDED, EDGE-MOUNTED STRIPLINE SIGNAL PROCESSING
MODULES AND MODULAR NETWORK**

5 **ABSTRACT OF THE DISCLOSURE**

 A class of modular, double-sided, edge-mounted printed circuit (PC) board
modules and an associated modular network architecture for constructing stripline
signal processing networks including high-power analog amplifiers and beam forming
networks for driving multi-beam antenna systems. The stripline signal processing
10 networks are characterized by network elements constructed from defined-length
segments of transmission media configured to exhibit precisely determined phase and
impedance characteristics. These circuits may also include conventional passive
"lumped" electrical elements, such as resistors, capacitors and inductors; non-linear
circuit elements such as diodes; and active electrical elements, such as amplifiers
15 and transistors.